

## Curriculum Vitae

Name: **C. Marc Bastuscheck**

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### EDUCATION:

5/80 PhD in Experimental Physics from Cornell University  
9/70 MS in Physics from The Pennsylvania State University  
6/69 BS in Physics from The Pennsylvania State University  
68-69 Year of study abroad at the University of Leiden (Netherlands)

### CAREER OVERVIEW:

After my PhD at Cornell University I took a postdoc position at New York University's Neuromagnetism Laboratory, then joined NYU's Robotics Lab as a Research Scientist. I later joined Arthur D. Little, a premier technology consulting firm (see "Additional Professional Experience" below). Since 2003 I have enjoyed teaching physics at Yeshiva University.

### TEACHING EXPERIENCE:

2003 - present Yeshiva College, Yeshiva University  
Teach Intermediate Mechanics, Environmental Physics (Lecture and Lab), Introductory and General Physics (labs, lectures and recitation), and Electronics. I oversee Physics labs: select adjunct faculty, schedule labs, update experiments, and maintain lab manuals for Environmental Physics, Physical Universe, Introduction to Physics I and II, and General Physics I and II (including Honors Lab). Research (has involved students): normal modes in electromagnetic cavities; surfaces of various materials using an Atomic Force Microscope, including investigations of liquid surfaces and the melting transition; high-speed video investigation of buckle phenomena in a thin plate.

1985-1989 Courant Institute, New York University  
Taught one section of a multi-section, two-semester course in machine language in the Computer Science department. Revised the content annually to match changes in the operating system which formed the basis of the course.

1976 Physics Department, Cornell University  
Taught recitation sections of introductory physics course.

1972 University of Maryland extension in Sinop, Turkey  
Taught college-level introductory mathematics for several semesters. I developed lesson plans to cover the course material.

1969 Physics Department, Pennsylvania State University  
 Taught introductory physics as a teaching assistant.

**ADDITIONAL PROFESSIONAL EXPERIENCE:**

10/02 - 8/04 National Executive Service Corps  
 I managed consulting services to arts organizations with this non-profit.

6/02 - 9/02 ICF Consulting, Inc.  
 I worked to increase the value of ICF's purchase of Arthur D. Little assets by introducing ICF practice leaders to ADL's capabilities and clients, developing business, and training associates.

1/89 - 6/02 Arthur D. Little, Inc  
 Advancing from Consultant to Manager, I provided technical management of research in 3D imaging and image analysis, robotic applications, inks and printing, and sortation technology, and later provided consulting services in technology and market assessment, and process improvement. I prepared cost and technical proposals, and was responsible for client management.

2/80 - 12/88 New York University  
 As Research Scientist I helped to create the Robotics Laboratory. I published papers in computer vision, robot grasping, and range imaging, and involved undergraduate and graduate students in research. As Research Associate (postdoc) I developed methods to measure iron load in human beings non-invasively and created computational models to calibrate apparatus absolutely.

**AFFILIATIONS:**

Member, American Physical Society  
 Member, American Institute for the Advancement of Science

**AWARDS AND HONORS:**

National Science Foundation Scholarship  
 U.S. Army Medal of Commendation (highest non-combat medal awarded)  
 Rotary International Fellowship for study abroad  
 National Merit Scholarship